Technical data

24148EAW33

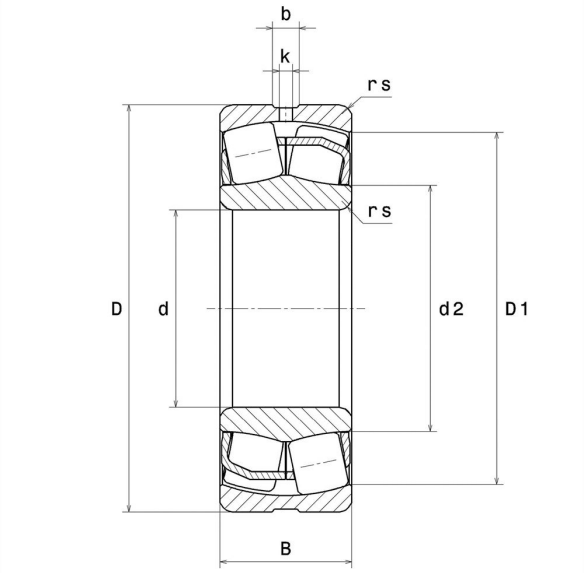
Double row spherical roller bearings

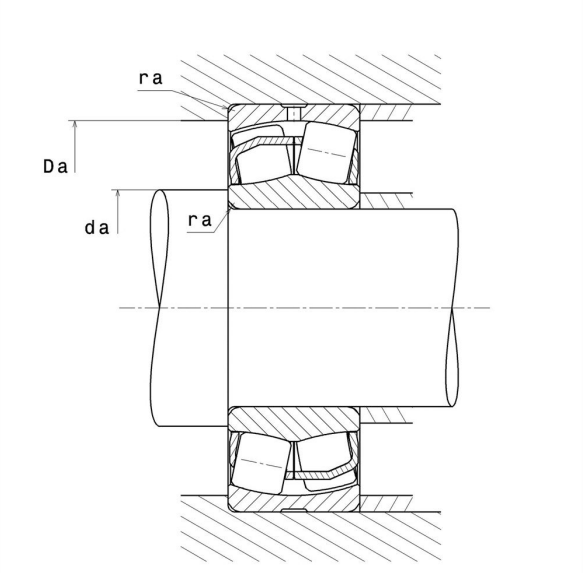


Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring

ULTAGE

Visual(s)





Product definition

d	240 mm
D	400 mm
B	160 mm
d2	269 mm
D1	348.1 mm
rs min	4 mm
Number of lubrication holes	3
b	19.37 mm
k	12 mm
Associated sleeve reference	P0
e	0.35
Y1	1.92
Y2	2.86
Y0	1.88
Radial clearance class	CN
Mass	76.7 kg
Brand	SNR

Product performance

Dynamic load, C	2,860 kN
Static load, C0	3,990 kN
Fatigue limit load, Cu	201 kN
Nref	800 Tr/min
Nlim	1,300 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.04 Hz
Characteristic outer ring frequency, BPF0	8.64 Hz
Characteristic inner ring frequency, BPFI	11.36 Hz

Abutment dimensions

da min	257 mm
da max	3 mm
Da max	383 mm
ra max	3 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa/Fr \leq e$		$Fa/Fr > e$	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .